

```

;      ASSEMBLY LANGUAGE VERSION OF MEM$MOVE FOR ED SPEEDUP
;      VERSION 2.0 OF ED

```

```

13CA = MEM$MOVE      EQU      13CAH
1D34 = MOVEFLAG      EQU      1D34H
1D20 = DIRECTION     EQU      1D20H
1D22 = FRONT         EQU      1D22H
1D24 = BACK          EQU      1D24H
1D26 = FIRST         EQU      1D26H
1D28 = LAST          EQU      1D28H
1C10 = BASELINE      EQU      1C10H
1D4D = MEMORY        EQU      1D4DH

```

```

;
0001 = FORWARD      EQU      1
000A = LF           EQU      0AH
;

```

```

13CA      ORG      MEM$MOVE
13CA 21341D LXI      H,MOVEFLAG
13CD 71     MOV      M,C      ;1 = MOVE DATA
13CE 114D1D LXI      D,MEMORY
13D1 2A221D LHLD     FRONT
13D4 19     DAD      D      ;MEMORY+FRONT
13D5 E5     PUSH     H
13D6 2A241D LHLD     BACK
13D9 19     DAD      D
13DA E5     PUSH     H
13DB 3A201D LDA      DIRECTION
13DE FE01   CPI      FORWARD
13E0 C21214 JNZ      MOVEBACK
13E3 2A281D LHLD     LAST
13E6 79     MOV      A,C      ;MOVEFLAG TO A
13E7 1F     RAR
13E8 DAF113 JC      MOVEFORW

```

```

;      SET BACK TO LAST
13EB 22241D SHLD     BACK
13EE E1     POP      H
13EF E1     POP      H
13F0 C9     RET

```

```

;
MOVEFORW:

```

```

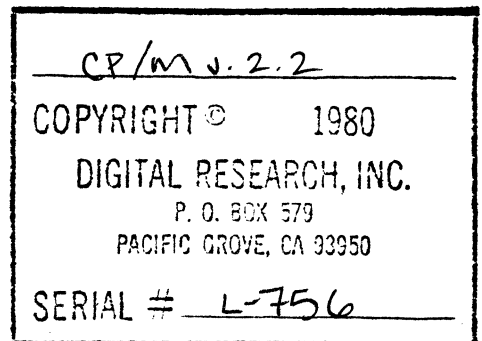
13F1 19     DAD      D      ;MEMORY+LAST
13F2 44     MOV      B,H
13F3 4D     MOV      C,L
13F4 E1     POP      H
13F5 D1     POP      D
13F6 7D     MOV      A,L
13F7 91     SUB      C
13F8 7C     MOV      A,H
13F9 98     SBB      B      ;CY IF TRUE
13FA D24314 JNC      EMOVE
13FD 23     INX      H      ;BACK=BACK+1
13FE 7E     MOV      A,M    ;CHAR TO A
13FF FE0A   CPI      LF     ;END OF LINE?
1401 C20D14 JNZ      NOTLFF
1404 E5     PUSH     H
1405 2A101C LHLD     BASELINE

```

```

MOVEF: MOV      A,L      ;BC=LAST, DE=FRONT, HL=BACK
;BACK < LAST?

```



1408 23	INX	H	;BASELINE=BASELINE+1
1409 22101C	SHLD	BASELINE	
140C E1	POP	H	
NOTLFF:			
140D 12	STAX	D	;TO FRONT
140E 13	INX	D	;FRONT=FRONT+1
140F C3F613	JMP	MOVEF	
MOVEBACK:			
1412 2A261D	LHLD	FIRST	
1415 19	DAD	D	;MEMORY+FIRST
1416 44	MOV	B,H	
1417 4D	MOV	C,L	
1418 E1	POP	H	
1419 D1	POP	D	;BC=FIRST, DE=FRONT, HL=LAST
141A 79	MOVEB: MOV	A,C	;FIRST > FRONT?
141B 93	SUB	E	
141C 78	MOV	A,B	
141D 9A	SEB	D	;CY IF TRUE
141E D24314	JNC	EMOVE	
1421 1B	DCX	D	;FRONT=FRONT-1
1422 1A	LDAX	D	;CHAR TO A
1423 FEOA	CPI	LF	
1425 C23114	JNZ	NOTLFB	
1428 E5	PUSH	H	
1429 2A101C	LHLD	BASELINE	
142C 2B	DCX	H	;BASELINE=BASELINE-1
142D 22101C	SHLD	BASELINE	
1430 E1	POP	H	
1431 F5	NOTLFB: PUSH	PSW	;SAVE CHAR
1432 3A341D	LDA	MOVEFLAG	
1435 1F	RAR		
1436 D23F14	JNC	NOMOVE	
1439 F1	POP	PSW	
143A 77	MOV	M,A	;STORE TO BACK
143B 2B	DCX	H	
143C C31A14	JMP	MOVEB	
143F F1	NOMOVE: POP	PSW	
1440 C31A14	JMP	MOVEB	
;			
1443 D5	EMOVE: PUSH	D	
1444 11B3E2	LXI	D,-MEMORY	
1447 19	DAD	D	;RELATIVE VALUE OF BACK
1448 22241D	SHLD	BACK	
144B E1	POP	H	
144C 19	DAD	D	;RELATIVE VALUE OF FRONT
144D 22221D	SHLD	FRONT	
1450 C9	RET		
1451	END		

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1D24 BACK	1C10 BASELINE	1D20 DIRECTION	1443 EMOVE	1D26 FIRST
0001 FORWARD	1D22 FRONT	1D28 LAST	000A LF	13CA MEMMOVE
1D4D MEMORY	1412 MOVEBACK	141A MOVEB	1D34 MOVEFLAG	13F1 MOVEFORW
13F6 MOVEF	143F NOMOVE	1431 NOTLFB	140D NOTLFF	

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